TOSHIBA PORTEGE 7140 Series Specifications

FEATURED SKU's	**DESCRIPTION**
PP714U-T2W8	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows 98 Configuration Builder CD

PROCESSOR (All models)	Intel Mobile Pentium® III ***(As Listed: See Featured SKU's)***
Available Processor speeds	500MHz (1.6v /core)
Integrated Coprocessor	Yes
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)
LEVEL 2 (L2) CACHE	**Yes: 256KB *Integrated into CPU***
Data Bus Width/Address Bus Width	64-Bit/32-bit
Front Side Bus Speed	100MHz

SYSTEM ARCHITECTURE (All models)	Chipset	Connecting Devices:
PCI (V.2.1) Bus: (32-bit, 33 MHz)	Intel82443BX	PC Card, Expansion Bus, Modem DSP, Sound, HDD, FIR and CD-ROM
AGP (R1.0)	Intel 80443BX	Graphics controller
ISA Bus: (8/16-bit, 8MHz)	N/A	BIOS ROM, KBC/EC
ISA Bus: (8-bit, 8mhz)	N/A	FDD

MEMORY: 128Mbit SO-DIMM PC100 **SDRAM,** 3.3V **(All models)**	
Standard/ Maximum	64 MB/192 MB
Speed	PC100
Data Bus Width/Address Bus Width	64-bit/32-bit
Front Side Bus Speed	100MHz

BIOS (4Mbit FLASH EPROM, 3.3V)	Yes: 512KB
Supported standards	APM(1.2), ACPI(1.0b), PnP(1.0a), VESA(2.0), DDC2B, DPMS, SM BIOS 2.3 PC BIOS (2.1)

SYSTEM MANAGEMENT (All Models)	
ACPI	Yes
Intel® LANDesk® Client Manager 6.0	Yes: with S.M.A.R.T. HDD support
Network connection	Yes: Built-in 10/100 Ethernet with optional DVD Network Dock II
SM BIOS 2.3 w/asset tag capability	Yes
Wired for Management 2.0	Yes: supports Wake-on-LAN & Remote Service Boot
Year 2000 compliance	Yes: NSTL Hardware tested
Toshiba Configuration Builder CD	Yes: Customized software configuration tool to reduce image creation time

STORAGE (All models)	
FDD (3.5" 1.44MB, 12.7mm height) – External	External use via bundled floppy connector
Dimensions/Weight	5.11"(D) x 3.77"(W) x 50"(H) / .345lbs.

PRIMARY HDD (2.5")

Interface	Enhanced IDE ***(ATA-4)***
Type	Service-Removable, 2 screws
Certification	SMART HDD support with LANDesk Client Manager 6.0
Burst Data Transfer Rate	33MB/s: Ultra DMA Mode2; 16MB/s: PIO Mode 4 & Multiword mode 2

HDD options	Capacity	Access Time (Avg.)	Buffer	Height (Max)
	6.0 billion bytes	12ms	1024KB	9.5mm

INTERNAL MODEM (As Listed)	v.90 / K56flex
DAA support	International DAA
Data support **(All models)**	
Protocols supported	ITU-T V.21/V.22/V.22bis/V.23/V.32/V.32bis/V.34/BELL103/212A **K56flex, V.90**
Error correction	MNP 1-4
Data compression	MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression
Fax support **(All models)**	Fax class 1, Class 1 ECM
Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Functions	***(Windows 98/95 only)***
Standard software	Ring Zero RingCentral modem software
Functions supported	Ring Wake-up Resume

Toshiba America Information Systems Inc. ("TAIS") shall not be liable for damages of any kind for use of this information, which is subject to change without notice. Copyright 1999 TAIS P7140CT (Gold).doc Rev. 2 03/21/00

TOSHIBA PORTEGE 7140 Series Specifications

FEATURED SKU's	**DESCRIPTION**
PP714U-3190N-T2W8	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows 98 Configuration Builder CD
PP714U-3190N-T2N4	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows NT Workstation 4.0

DISPLAY (All models)	
Type	13.3" Diagonal TFT Active Matrix Color, 1024 x 768
Dot Pitch	0.264mm x .264mm
Contrast Ratio	150:1

VIDEO (All models)	
Memory: **SGRAM**	4MB *(integrated into Controller chip)*
Controller Chip	Trident Cyber Blade e4-128
AGP bus (with side band support)	66MHz
Graphics Accelerator:	Yes: ***128-bit BitBLT engine***
2D Graphics support	BitBLT, H/W Cursor, DirectDraw
3D Supported Features	AGP supported
Triangle Setup	Yes
Modeling	Fogging, Lighting
Shading	Flat shading, Gouraud shading
Rendering (Texture mapping)	Bilinear, trilinear, Anti-aliasing, MIP mapping, Z-buffering
Alpha-blending	Yes
Direct3D support	Yes
Digital Video Accelerator:	Yes
YUV-to-RGB color space conversion	Yes
Scaling Support	Yes
Zoom (vertical and horizontal)	Yes
Interpolation (vertical and horizontal)	Yes
DirectVideo, DirectMPEG support	Yes
Motion compensation	Yes

INTERNAL SUPPORT (All models)	
Full screen	1024 x 768 x 16.7M colors
Smaller Image	640 x 480 x 16.7M colors
Smaller Image	800 x 600 x 16.7M colors
Virtual Image	1280 x 1024 x 64K colors
Virtual Image	1600 x 1200 x 64K colors

EXTERNAL SUPPORT (All models)		**Vert. Refresh Rate (Non-Interlaced)**
	Colors	External Mode
640 x 480	16.7M colors	60/75/85Hz
800 x 600	16.7M colors	60/75/85Hz
1024 x 768	16.7M colors	60/75/85Hz
1280 x 1024	64K colors	60/75Hz
1600 x 1200	64K colors	60Hz

SOUND SYSTEM (As Listed)	
Chipsets:	ESS ES1978S and ES1918 (codec chip)
Functions supported	
Sound formats supported:	Windows Sound System 2.0, MIDI, SoundBlaster Pro v. 3.01
16-bit stereo audio playback/record	Yes: w/48kHz maximum sampling rate
Synthesis Policy	FM synthesis with Wavetable software support
Full duplex function	Yes: including simultaneous playback and record
3D Sound support	Yes (HRTF 3D positional audio, DVD AC-3 speaker virtualization)
DirectSound support	Yes (Hardware acceleration)
Direct3Dsound support	Yes
DirectMusic	Yes (Hardware acceleration)
Volume control	Yes
Built-in microphone (monaural)	Yes
Speaker system (monaural)	Single top-mounted speaker (28mm, 16 Ω)

Toshiba America Information Systems Inc. ("TAIS") shall not be liable for damages of any kind for use of this information, which is subject to change without notice. Copyright 1999 TAIS P7140CT (Gold).doc Rev. 2 03/21/00

TOSHIBA PORTEGE 7140 Series Specifications

FEATURED SKU's	**DESCRIPTION**
PP714U-3190N-T2W8	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows 98Configuration Builder CD
PP714U-3190N-T2N4	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows NT Workstation 4.0
KEYBOARD (All models)	
85 keys *with Windows support*	Yes (full-size key caps; 2.7mm Travel)
Key Pitch	19.05mm
12 dedicated function keys	Yes
Numeric keypad (Integrated Overlay)	Yes
Integrated Pointing Device (All models)	AccuPoint™ II Pointing Device with Pressure Sensitive Scrolling function
EXPANSION SLOTS (All models)	Location: Left side of unit
Two Stacked PC Card Slot (CardBus Ready)	Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.
32-bit, 3.3V PC CardBus Support	Yes
16-bit, 5.0V PC Card Support	Yes
Internal Memory Slot (One only)	Yes
EXPANSION PORTS (All models)	**LOCATION**
One Microphone (3.5mm mini jack, monaural)	Yes: Front of unit
One Headphone (3.5mm mini jack, stereo)	Yes: Front of unit
One 15-Pin RGB (SVGA video)	Yes: Rear of unit
One DC Power-in Jack	Yes: Rear of unit
One 240-pin expansion bus	Yes: Bottom of unit
One Kensington cable lock slot	Yes: Right side
One RJ11 Port for internal modem	Yes: Right side
One Fast Infrared port (IrDA1.1: 4Mbps)	Yes: Left side
One I/O port adapter port (50-pin)	Yes: Left side
One External Floppy Drive port (26-pin)	Yes: Left side *(Compatible with Portégé 7020CT)*
One Universal Serial Bus (USB) port	Yes: Left side (Supports 127devices. Throughput Rate: 12Mbits/sec.)
One Power Switch	Yes: Left side
One Reset button	Yes: Left side
I/O BAR (Port Expander) -- PA2728U	**(1) Standard: Connects to I/O Port Adapter Port – Left side**
One 9-Pin Serial (16550 UART compliant)	Yes
One 25-Pin Parallel (8 bit ECP)	Yes
One (PS/2) 101 Keyboard/Mouse port	Yes: Supports use of Y-cable
POWER (All models)	
Autosensing External AC Adapter: PA2450U	1.0"L x .4.9"W x 2.5"H --- Weight: .66lbs.
Input (Voltage/Frequency)	100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 3.0A
Power Output (Watts)	45W

Battery Type: Li-Ion	Standard	Optional (High Capacity)
Part number	PA3000U	PA3002U
Battery Rating	10.8V, 3000mAH	10.8V, 6000mAH
Dimensions (LxWxH)	8.18" x 1.54" x 0.77"	8.18" x 2.63" x 1.28"
Weight	.5 lbs.	1.26 lbs.
Battery Life: (Full Power)	2.0+	4.0+
Recharge Time (Computer Off/On)	3/4-10 hrs.	N/A

Power Saving Features: APM v.1.2 BIOS, CPU Sleep mode , HDD Auto Off, Display Auto Off, CPU speed change, Auto Resume, Hibernation, LCD Brightness switch (software)

Toshiba America Information Systems Inc. ("TAIS") shall not be liable for damages of any kind for use of this information, which is subject to change without notice. Copyright 1999 TAIS P7140CT (Gold).doc Rev. 2 03/21/00

TOSHIBA PORTEGE 7140 Series Specifications

FEATURED SKU's	**SEE ABOVE**	
PP714U-3190N-T2W8	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows 98 Configuration Builder CD	
PP714U-3190N-T2N4	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows NT Workstation 4.0	
10/100 Network/ DVD Dock (Optional)	**Part Number: PA3007U**	
Dimensions/ Weight	11.89"W x 10.12"D x 0.8/0.9"H *(Weight: 2.64 lbs.)*	
Ethernet connection	10/100BaseT Ethernet (3Com Chipset: 3C920)	
Supported Features		
Suspend/Resume	Yes (Windows 98 & 95 only)	
System Management support	Wake-On-LAN and Remote Service Boot	
Integrated FDD	Yes	
DVD-ROM (Toshiba SD-C2302)		
Operating System compatibility	Windows 95/98 only ***(Will not play movies under Windows NT)***	
Type	5.25", 12.7mm height	
Interface	Enhanced IDE	
Buffer	128KB	
CD-ROM compatibility	CD-DA, CD+G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-Extra, CD-RW, CD-R), CD-I, CD-R (read only), CD-RW (read only)	
DVD-ROM compatibility	DVD-Video, DVD-ROM only (no DVD-RAM), DVD-RW (read only)	
DVD-Movie compatibility	Region 1 (North America).	
ActiveMovie support	Yes	
Motion Video Playback	DVD video	
Decoder (software)	Mediamatics DVD Express	
Operation modes	DVD-ROM	CD-ROM
Access Speed (Max)	6X	24X
Random Access Time	140ms	100ms
Sustained Data Transfer rate (Max)	8,112 KB/sec	3600 KB/sec
Stereo speakers	Yes	
Ports		
One 240-pin expansion bus	Yes	
One 9-Pin Serial (16550 UART compliant)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One SVGA port	Yes	
One (PS/2) 101 Keyboard port	Yes	
One (PS/2) Mouse port	Yes	
Two Universal Serial Bus (USB) port	Yes: Supports 127devices. Throughput Rate: 12Mbits/sec.	
One Composite Video port (NTSC/PAL)	Yes	
One RJ-45 Ethernet port	Yes	
One Headphone	Yes: (3.5mm mini jack, stereo)	
One Line-in	Yes: (3.5mm mini jack, stereo, 2V rms)	
One Line-out	Yes: (3.5mm mini jack, stereo, 0.7V rms)	
One DC-in port	Yes	
One Manual volume control	Yes	
One Cable lock slot	Yes	

Toshiba America Information Systems Inc. ("TAIS") shall not be liable for damages of any kind for use of this information, which is subject to change without notice. Copyright 1999 TAIS P7140CT (Gold).doc Rev. 2 03/21/00

TOSHIBA PORTEGE 7140 Series Specifications

FEATURED SKU's	DESCRIPTION
PP714U-3190N-T2W8	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows 98 Configuration Builder CD
PP714U-3190N-T2W8	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows NT Workstation 4.0

CERTIFICATIONS (All models)	
USA	UL 1950, FCC Part 15 class B, FCC part 68
Canada	CSA C22.2 No 950 or c-UL (CSA223), I.Canada
Europe	EN 60950, CISPR Pub.22(EN55022), EMC Directive(EMC+Immunity), CTR21
Japan	JEIDA-37, VCCI class B, Leakage current, Flash voltage, JATE
Australia	AUSTEL, SMA
Other	Energy Star Compliant, Year 2000 compliant (NSTL Hardware Tested)

CASE CONSTRUCTION	***Magnesium for extra rigidity and durability***
DIMENSIONS (All models)	11.7"W x 9.5"D x 1.1"H (0.92"Front)
WEIGHT (includes . 5 lb. battery)	4.4 lbs.

BUNDLED SOFTWARE **(Windows 95 models)**

Microsoft® Windows® 95, Toshiba Easy Internet, Microsoft Internet Explorer 5.0 (Export Version), Mediamatics DVDExpress Software Decoder, Toshiba Utilities (FN-Esse, HWSetup, Hibernation, Power Management Utility Supporting ACPI-M3.0), RingZero® RingCentral™ modem software, Puma IntelliSync 97

Additional Software on Configuration Builder CD: LANDesk Client Manager 6.0, SMS Connect 2.0, User's Guide, Online Registration

CD's Included: *Bootable Windows 95/98/NT Configuration Builder CD, Companion Diskette*

BUNDLED SOFTWARE **(Windows 98 models)**

Microsoft® Windows® 98 Second Edition, Toshiba Easy Internet, Microsoft Internet Explorer 5.0 (Export Version), RingZero® RingCentral™ modem software, Medimatics DVDExpress Software Decoder, Toshiba Utilities (FN-Esse, HWSetup, Hibernation, Power Management Utility Supporting ACPI-M3.0)

Additional Software on Configuration Builder CD: LANDesk Client Manager 6.0, SMS Connect 2.0, User's Guide, Online Registration

CD's Included: *Bootable Windows 98 Configuration Builder CD, Companion Diskette*

BUNDLED SOFTWARE **(Windows NT models)**

Microsoft® Windows® NT 4.0, Service Pack 5.0, Microsoft Internet Explorer v. 5.0 (export version), Puma IntelliSync 97, SystemSoft Card Wizard, Medimatics DVDExpress Software Decoder
Toshiba Utilities (FN-Esse, HWSetup, Hibernation, Power Management Utility Supporting ACPI-M3.0)

Additional Software on Configuration Builder CD: Intel LANDesk Client Manager 6.0, SMS Connect 2.0, Electronic manual,
CD's Included: *Bootable Configuration Builder CD, Companion Diskette*

SECURITY (All models)		
Password security	Power-on, Supervisor, HDD, Eject	
Lock mechanisms	Kensington cable lock, Main memory & HDD (screw only), PC Card (when docked)	
Miscellaneous	Keyboard (by Hotkey), Screen blank (by Hotkey)	

WARRANTY (All models)	3 YR Parts & Labor (1 YR Battery)

ENVIRONMENTAL SPECIFICATIONS (All models)	Operating	Non-operating
Temperature	41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149°F (65°C)
Thermal Gradient: 20º C per hour (max.)	N/A	N/A
Relative Humidity	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:	10G (11ms); 1.5G (docked)	60G (66ms); 50G (docked)
Vibration:	0.5G (5~500Hz); 0.25G (docked)	1G (5~500Hz); 1G (docked)

Toshiba America Information Systems Inc. ("TAIS") shall not be liable for damages of any kind for use of this information, which is subject to change without notice. Copyright 1999 TAIS P7140CT (Gold).doc Rev. 2 03/21/00